In response to the Office Action mailed on April 23, 1999, Applicant respectfully submits the following amendments and remarks:

## IN THE CLAIMS

Please cancel claims  $^1\!3$ ,  $^1\!0$  and  $^2\!2$ . In addition, Please amend the claims as follows:

1. (Amended) A dual band radio receiver comprising:

a local oscillator configured to generate a Local Oscillator (LO) signal;

a first two way switching device responsive to a base band controller for switching between a first Radio Frequency (RF) signal received from a first front end receiver and a second RF signal received from a second front end receiver;

a first mixer device configured to receive said LO signal and [a] said first [Radio Frequency (RF)] RF signal included within a first band and responsively to output a first Intermediate Frequency (IF) signal;

a second mixer device configured to receive said LO signal and [a] said second RF signal included within a second band and responsively to output a second IF signal;

a second two way switching device responsive to said base band controller for switching between said first and second IF signals; and

wherein said local oscillator is configured to operate within a third band located between said first and second bands and is responsive to said base band controller.

2. (Amended) The dual band radio receiver of claim 1 further comprising first and second IF filters [and a switching device]

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coupled between [thereto, wherein said first and second IF filters are coupled to] said first and second mixer devices and said second two way switching device, respectively. (Amended) A system comprising: a transmitter circuit; and a dual band radio receiver coupled to said transmitter, said dual band radio receiver including 5 a local oscillator configured to generate an LO signal [;] , a first two way switching device responsive to a base band controller for switching between a first Radio Frequency (RF) signal received from a first front end receiver and a second RF signal received from a second front end 11 receiver, a first mixer device configured to receive said LO signal 12 13 and [a] said first RF signal included within a first band and 14 responsively to output a first IF signal, 15 a second mixer device configured to receive said 16 LO signal and [a] said second RF signal included within a 17 second band and responsively to output a second IF signal, 18 a second two way switching device responsive to said base band controller for switching between said first and 19 20 second IF signals, and 21 wherein said local oscillator is configured to 22 operate within a third band positioned between said first and 23 second bands and responsive to said base band controller. (Amended) The system of claim & further comprising first 1

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and second IF filters [and a switching device] coupled between

[thereto, wherein said first and second IF filters are coupled

to] said first and second mixer devices and said second two way switching device, respectively.

(Amended) In a dual-band radio receiver configured to receive Radio Frequency (RF) signals within first and second bands, a method for converting an RF signal into an IF signal, the method comprising the steps of:

- 5 determining whether said RF signal belongs to one of a
- 6 first and a second bands; and

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- 7 if said RF signal belongs to one of said first and second
- 8 bands , generating said IF signal in response to a base band
- 9 controller by mixing said RF signal with a LO signal belonging
- to a third band located between said first and second bands. 10

(Amended) A method for providing a dual band radio receiver, the method comprising the steps:

providing first and second front end receivers ; providing first and second mixers; providing a base band controller;

providing a circuit configured to determine whether an RF signal input thereto from the first or second front end receivers belongs to one of a first and second bands, said 9 circuit coupling said RF signal to one of said first and second mixers if said circuit determines that the RF signal belongs to one of a first and second bands respectively and is responsive to said base band controller; and

coupling a local oscillator to said first and second mixers, said local oscillator configured to generate signals within a third band that is positioned approximately mid-way between said first and second bands and wherein said local oscillator is responsive to said base band controller.

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